

**APPLICATION FOR
STORMWATER MANAGEMENT CONCEPT APPROVAL**

Public works use only

DATE RECEIVED: _____

NO.: _____

PART A

Stormwater management concept plan approval is requested for:

Development Name: _____

Development Address: _____

Applicant Name: _____

Applicant Address: _____

Applicant Phone No.: _____
Daytime Cellular Fax

Engineer/Architect/Surveyor: _____
Firm Name Contact Name & Phone No.

Please check applicable items below, or indicate "N/A"

___ Storm drain/stormwater management construction required
___ Private ___ Public

___ Stormwater Management design approval required

___ Surface drainage/flood plain easement required

___ Infiltration

___ 2-10 year attenuation ___ 100 year attenuation

___ Other: _____

___ In lieu of providing on-site attenuation/quality control measures, a stormwater management waiver fee of \$_____ is required when application is made for building or stormwater permit.

Public Works Use Only

Conditions of Approval: _____

Approval recommended by: _____

Conditional ____ Unconditional ____

Approval Date: _____

Expiration Date: _____

Approval By: _____

City Engineer for
Director of Public Works

PART B

FOR RESIDENTIAL DEVELOPMENT EXCEEDING ONE DWELLING UNIT AND ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, THE FOLLOWING MUST BE COMPLETED AND SIGNED BY A REGISTERED ENGINEER, ARCHITECT OR LAND SURVEYOR:

Yes No

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Are any drainage flow concentrations exceeding 5 cubic feet per second entering the site from upgrade properties? |
| <input type="checkbox"/> | <input type="checkbox"/> | Will the development have a post-development drainage flow concentration on the site exceeding 5 cubic feet per second? |
| <input type="checkbox"/> | <input type="checkbox"/> | Is there an improved (natural) drainage course off-site that now, or could in the future, impact the site via flooding or erosion? |
- 1. IF THE ANSWER TO ANY OF THE ABOVE QUESTIONS IS “YES” COMPLETE PART C, SECTIONS 1 THROUGH VI, AS REQUIRED.**
- 2. IF THE ANSWER TO ALL OF THE ABOVE QUESTIONS IS “NO” COMPLETE ONLY PART C, SECTIONS III AND VI.**

PART C

WHAT TREATMENT(S) DO YOU PROPOSE FOR THE DRAINAGE SYSTEM? (Check and complete ALL sections that apply.)

- | | |
|--------------------------|--|
| <input type="checkbox"/> | CLOSED (PIPE) SYSTEM - COMPLETE SECTION I. Closed systems are normally required for residential developments having lots of less than 1 acre, commercial development and high density industrial development. |
| <input type="checkbox"/> | OPEN (SWALE, DITCH, NATURAL) SYSTEM - COMPLETE SECTION II. Roadside ditches and culverts associated with rural road sections are considered to be an open system. |
| <input type="checkbox"/> | PEAK FLOW ATTENUATION - COMPLETE SECTION V. |
| <input type="checkbox"/> | WATER QUALITY CONTROL MEASURES - COMPLETE SECTION VI. To be completed for all developments. |

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PART C SECTION 1 - CLOSED SYSTEMS

Yes No

- ☐ ☐ **Will any grading (such as fill over the closed system) block or partially block drainage courses so as to increase the upstream flood limits under existing conditions or after ultimate development of the tributary watershed?**
IF YES, provide a drawing showing the flood area before and after your development.

Indicate on a drawing the approximate alignment of the system.

- ☐ ☐ **Are all entrance structures, except inlets that intercept 5 cfs or less, located either in a street or outside the site boundaries?**
IF NO, give reason and describe the proposed use and topography of the area at the structure location.

- ☐ ☐ **Are all outfall structures located outside the site boundaries?**
IF NO, give reason and describe the existing and proposed topography of the area at the structure location.

NOTE: IF ENTRANCE AND OUTFALL STRUCTURES CANNOT BE LOCATED BEYOND THE SITE BOUNDARY, YOUR PROPOSAL MAY NOT BE ACCEPTABLE.

PART C SECTION II - OPEN SYSTEMS

Yes No

Indicate on a drawing or separate document the off-site drainage area tributary to the drainage system(s). Show on the plan the ultimate 100-year floodplain, wetland delineation for wetlands outside the floodplain, and the approximate alignment of the natural or improved channel.

- ☐ ☐ **Is there a recorded floodplain easement or delineation approved by the FEMA, State or Montgomery County?**
- ☐ ☐ **If any lots are in the floodplain, can the houses be located at least 25' from the floodplain? IF NO, concept is NOT ACCEPTABLE. All lots less than 2 acres in size must be located outside the floodplain.**
- ☐ ☐ **Is an unimproved natural watercourse proposed? IF YES, provide evidence that it will remain stable and will not require improvement at a future date (consider soil erosion potential, vegetation, existing condition, comparison of existing flows vs. ultimate development flows.)**
- ☐ ☐ **Is an improved design surface watercourse proposed? (The channel must be capable of conveying the ultimate 10-year design storm flow and must be designed to be erosion-free.)**

If yes, what type of channel is proposed?

☐ Grass ☐ Rip-Rap ☐ Gabion ☐ Other: _____

Compute pre- and post-development flows for each point where the drainage course leaves the site and tabulate the results on Page 7.

PART C SECTION III - STREETS/ROADS

The street/road section may govern the nature and extent of any drainage improvements required. Street requirements are established by the Department of Public Works. It is incumbent upon the applicant to determine such requirements prior to submitting this application, and to show all improvements on the concept plan.

- Streets/Roads**
- ☐ New construction to be done as part of this development
 - ☐ Upgrading to be done as part of this development
 - ☐ Street existing
 - ☐ No improvements required by the Department of Public Works (attach documentation)

NOTE: Show flow quantities across proposed intersections.

PART C SECTION IV - DOWNSTREAM IMPACT

Complete this section for all developments except for single-family of 3 lots or less.

Analyze the downstream watercourse to a point where the increase in 10 and 100-year flow due to development is no greater than 10 percent of the existing flow. Provide a drawing of the downstream analysis area showing existing land uses, drainage features, and location and elevation of houses/buildings that are within 2 vertical feet of the ultimate 100 year floodplain.

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Are any houses within 25' of, or are other buildings within the 100-year floodplain? |
| <input type="checkbox"/> | <input type="checkbox"/> | Would the proposed development increase the existing 100-year floodplain to within 25' of existing houses, or cause other buildings to be within the floodplain? |
| <input type="checkbox"/> | <input type="checkbox"/> | Within the study area, would the ultimate development of the watershed increase the 100-year floodplain to within 25' of houses, or cause other buildings to be within the floodplain? |
| <input type="checkbox"/> | <input type="checkbox"/> | Has the site been rezoned? IF YES, submit a hydraulic analysis or other evaluation, as appropriate, showing or stating the effects of your development on downstream improvements. What was the original zoning? |
| <input type="checkbox"/> | <input type="checkbox"/> | Within the analysis area, is there an open drainage course, improved or natural, which crosses or in any way impacts developed properties? IF YES, provide detailed information on this drainage course (i.e., soils, existing conditions, etc.) |

PART C SECTION V - WATER QUALITY CONTROL

Infiltration or other acceptable quality control measures are generally required for all sites exceeding 5,000 square feet of disturbed area unless the waiver is granted under the provisions of the Stormwater Management Ordinance.

SEE TAKOMA PARK STORMWATER MANAGEMENT ORDINANCE 2002-10C-6 FOR SPECIFIC REQUIREMENTS

Yes No

- ☐ ☐ Are you requesting a waiver of water quality control requirements? IF YES, state the basis for this request. IF NO, describe the control method(s) you propose to use. If a detention/retention facility is the proposed method of control, complete Section VI.

TOTAL NEW IMPERVIOUS AREA _____

- ☐ ☐ List the predominant soil type(s) on this site.

TYPE:

PERCENTAGE:

- ☐ ☐ Have soil borings been done at the site? If infiltration is the sole water quality measure proposed, a soil boring report must accompany submissions.

PART C SECTION VI - STORMWATER MANAGEMENT FACILITIES

Peak flow attenuation will be required unless there is a regional facility planned for construction by the State or County DPW or, if it can be demonstrated that the site will not cause a detrimental impact on a downstream property. In addition, this section must be completed if detention/retention/extended detention is the selected alternative for water quality control.

SEE TAKOMA PARK STORMWATER MANAGEMENT ORDINANCE 2002-10C FOR SPECIFIC REQUIREMENTS.

Complete this section if you have determined a need for attenuation or believe that attenuation is appropriate for your development.

1. Describe the type of attenuation proposed.

2. If a control facility or structure is proposed, do you intend to obtain approval for it as a publicly or privately maintained facility? (Residential facilities may be publicly maintained.)

3. **The WPB generally requires that attenuation measures control specific frequency storms to pre-development levels. In all cases involving downstream flood damage potential, control of the 100-year storm is required. Control of the 10-year storm is also required if there are inadequate public drainage improvements downstream. In certain cases involving downstream erosion potential control of the 2- and 10-year storm may be required. If you intend to provide attenuation that you believe may not be in accordance with the WPB criteria, state the storm frequencies and level of control you wish to provide and the reason thereof (use attachment if additional space is required).**

Please indicate the section and question(s) to which the information pertains.

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

SUBMITTED BY: _____ DATE: _____

NOTE: INCOMPLETE AND/OR UNSIGNED APPLICATIONS WILL RESULT IN REJECTION OF THE SUBMISSION.